

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A defibrillator having an output stage ~~which has~~ with an H-bridge (2) between a positive pole and a negative pole of an energy storage unit (1), and which is triggered via a trigger circuit (3) to emit a bi-phased defibrillation pulse, wherein a patient circuit is ~~embodied~~ in the transverse branch (QZ) having at least one inductive resistor (L1), and the bi-phased triggering takes place ~~in a manner known per se~~ by alternatively switching on switching members (S1, S2, S3, S4) arranged in ~~[[the]]~~ four H-legs of the H-bridge (2) for reversing ~~[[the]]~~ a direction of the patient current (IP) in the transverse branch (QZ), and wherein the patient current (IP) is controlled during the various phases by presetting a reference variable and including an actual value by ~~means of~~ the trigger circuit (3) by triggering the switching ~~member arrangement~~ members (S1, S2, S3, S4) with a higher frequency than that for generating the two opposite phases, the defibrillator comprising:

~~characterized in that~~

for regulating the patient current (IP) in the one direction, only the switching member (S3) assigned to ~~this~~ the current direction in the H-leg (D-c) pointing to the negative pole ~~[[is]]~~ triggered at the higher frequency, while for regulating the patient current (IP) in ~~[[the]]~~ an other direction only the switching

Based Upon: PCT/EP2003/012857

member (S1) assigned to ~~this~~ the other current direction in the H-leg (D-A) pointing to the positive pole is triggered at the higher frequency; and

anti-parallel with the switching members (S3, S1) triggered at the higher frequency, at least one diode (DII, DI) is respectively arranged, ~~so that via the latter, as well as via~~ with the switching member (S2, S4) continuously closed in the respective phase[[,]] to maintain the patient current (IP) ~~is maintained~~ in [[its]] a respective direction even if the switching member (S1, S3) triggered at the higher frequency is in [[the]] an open state.

2. (Currently Amended) The defibrillator in accordance with claim 1, wherein ~~characterized in that~~ a current sensor resistor (R4) is arranged in the transverse branch (QZ) for detecting the patient current (IP), a proportional voltage (E1) is formed from the patient current (IP)[[,]] which is amplified by ~~means of~~ an amplifier (U6A) and is ~~provided~~ in [[the]] a form of an actual value for a comparison between an internal reference voltage (REF1) and an external reference voltage (REF2), and ~~in case~~ if the external reference voltage (REF2) is exceeded[[,]] a trigger signal of the higher frequency is formed for opening the respective switching member (S3, S1), and[[,]] ~~in case~~ if the interior reference voltage (REF1) is downwardly exceeded, a trigger signal of the higher frequency for closing the respective switching member (S3, S1) is formed.

Based Upon: PCT/EP2003/012857

3. (Currently Amended) The defibrillator in accordance with claim 2, wherein ~~characterized in that~~ the trigger signal of the higher frequency is formed via a logic circuit (U4A, U3b).

4. (Currently Amended) The defibrillator in accordance with claim [[2 or]] 3, wherein ~~characterized in that~~ the amplified proportional voltage (E1) is rectified one of before, during [[or]] and after the amplification.

5. (Currently Amended) The defibrillator in accordance with ~~one of the preceding claims, characterized in that~~ claim 4, wherein at a connecting point (P1) in the transverse branch (QZ) between a patient resistor (R5) and the inductive resistor (L1) placed in series therewith, a ~~respective~~ further diode arrangement (DIII, DIV) ~~in regard to~~ regarding the energy storage unit is respectively arranged in the blocking direction ~~on the one hand in [[the]]~~ a positive direction toward the positive pole and ~~on the other hand in [[the]]~~ a negative direction toward the negative pole.

Based Upon: PCT/EP2003/012857

6. (Currently Amended) The defibrillator in accordance with ~~one of the preceding claims, characterized in that~~ claim 5, wherein the two switching members (S2, S4) in the two remaining H-legs (A-B, B-C) are ~~also~~ bridged by anti-parallel arranged diodes (DV, DVI).

7. (New) The defibrillator in accordance with claim 2, wherein an amplified proportional voltage (E1) is rectified one of before, during and after the amplification.

8. (New) The defibrillator in accordance with claim 1, wherein at a connecting point (P1) in the transverse branch (QZ) between a patient resistor (R5) and the inductive resistor (L1) placed in series therewith, a further diode arrangement (DIII, DIV) regarding the energy storage unit is respectively arranged in the blocking direction in a positive direction toward the positive pole and in a negative direction toward the negative pole.

9. (New) The defibrillator in accordance with claim 1, wherein the two switching members (S2, S4) in the two remaining H-legs (A-B, B-C) are bridged by anti-parallel arranged diodes (DV, DVI).